

**SEMESTER I**

- Behavioural Science
  - Self Development and Interpersonal Skills
- Communication Skills
  - Advanced Communication
- Core Courses
  - Applied Biostatistics for Biotechnologists
  - Advanced Genetics
  - Advanced Biochemistry
  - Advanced Plant Physiology
  - Advanced Animal Physiology
  - Advanced Microbiology
- Domain Elective Courses
  - Elementary Bioinformatics
  - Biotechnology & Personalized Medicine
  - Cancer & immunity
  - Vaccinology
  - Nutritional Immunology
  - Aquatic Virology
  - Applied Virology
  - Viral Disease Management
- Foreign Business Language
  - Introduction to Arabic Culture
  - Introduction to Chinese Culture
  - Introduction to Francophone Culture
  - Introduction to German Culture
  - Introduction to Japanese Culture
  - Introduction to Russian Culture
  - Introduction to Vedic Culture
  - Introduction to Hispanic World
- Open Elective Courses
  - Bharatnatyam-I
  - Energy Management Systems
  - IT Service Management Systems
  - Risk Management - Bsi
  - Lean Management
  - Food Safety Management Systems

**SEMESTER II**

- Behavioural Science
  - Conflict Resolution and Management
- Communication Skills
  - Communication for Employment
- Core Courses
  - Bioinformatics
  - Bioanalytical Techniques in Life Sciences
  - Advance Molecular Biology
    - Molecular Cell Biology
    - Advanced Immunology
- Domain Elective Courses
  - Biotechnology & Personalized Medicine
    - Immunodiagnostics
    - cancer & immunity
    - vaccinology
    - nutrition & immunity
    - Nutritional Immunology
    - Microbial Fermentation Technology
  - Dairy Microbiology
  - Drug Discovery and Development
    - Clinical Microbiology
    - Plant - Microbe Interaction
  - Medical Virology
  - Aquatic Virology
  - Applied Virology
- Foreign Business Language
  - Arabic Grammar – I
  - Chinese Grammar – I
  - French Grammar – I
  - German Grammar – I
  - Japanese Grammar – I
  - Russian Grammar – I
  - Sanskrit Grammar – I
  - Spanish Grammar – I
- Open Elective Courses
  - Bharatnatyam-I
  - Risk Management - Bsi

<ul style="list-style-type: none"> <li>○ Occupational Health and Safety Management Systems</li> <li>○ Business Continuity Management</li> <li>○ Six Sigma Green Belt</li> <li>○ Information Security Management Systems</li> <li>○ Environmental Management Systems Bsi</li> <li>○ Quality Management Systems</li> <li>○ Drawing Techniques for Animation</li> <li>○ Multimedia Applications</li> <li>○ Consumer Electronics</li> <li>○ Principles of Communication Engineering</li> <li>○ Home Health Monitor Appliances</li> <li>○ Battlefield Electronic Systems</li> <li>○ Managing Innovation Process</li> <li>○ Introduction to Fashion Concepts</li> <li>○ Fashion Drawing</li> <li>○ Basics of Sewing</li> <li>○ Nutrition Through Life Cycle</li> <li>○ Functional Foods and Nutraceuticals</li> <li>○ Guitar-I</li> <li>○ Global Business Management</li> <li>○ Software Applications for Erp</li> <li>○ Information Security Policies in Industries</li> <li>○ ICT and Sustainable Development</li> <li>○ Anchoring and Presentation for Radio and Tv</li> <li>○ Kathak-I</li> <li>○ Kuchipudi-I</li> <li>○ Nanomaterials in Food</li> <li>○ Nanotoxicology and Environment</li> <li>○ Nanotoxicology</li> <li>○ Nanocomposites and Biomems</li> <li>○ Nanocomposites for Tissue Replacement and Engineering</li> </ul>	<ul style="list-style-type: none"> <li>○ Food Safety Management Systems</li> <li>○ Business Continuity Management</li> <li>○ Six Sigma Green Belt</li> <li>○ Environmental Management Systems Bsi</li> <li>○ Quality Management Systems</li> <li>○ Multimedia Applications</li> <li>○ Consumer Electronics</li> <li>○ Consumer Electronics</li> <li>○ Principles of Communication Engineering</li> <li>○ Home Health Monitor Appliances</li> <li>○ Managing Innovation Process</li> <li>○ Introduction to Fashion Concepts</li> <li>○ Fashion Drawing</li> <li>○ Fashion and Luxury Brand Management</li> <li>○ Basics of Sewing</li> <li>○ Nutrition Through Life Cycle</li> <li>○ Functional Foods and Nutraceuticals</li> <li>○ Guitar-I</li> <li>○ Software Applications for Erp</li> <li>○ Introduction to Knowledge Management</li> <li>○ Information Security Policies in Industries</li> <li>○ Ict and Sustainable Development</li> <li>○ Kathak-I</li> <li>○ Kuchipudi-I</li> <li>○ Odisi-I</li> <li>○ Applied Positive Psychology</li> <li>○ Sitar-I</li> <li>○ International Business</li> </ul>
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<ul style="list-style-type: none"> <li>○ Bioelectronics and Nanomechanical Devices</li> <li>○ Odisi-I</li> <li>○ Sitar-I</li> <li>○ International Business Strategy</li> <li>○ Synthesizer-I</li> <li>○ Tabla-I</li> <li>○ Introduction to Traditional Textiles</li> <li>○ Basics of Photography</li> <li>○ Vocal -I</li> <li>○ Animal Behaviour</li> <li>● Outdoor Activity Based Courses <ul style="list-style-type: none"> <li>○ Entrepreneurship Awareness Camp</li> <li>○ Military Training Camp(Pg)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ Strategy</li> <li>○ Synthesizer-I</li> <li>○ Tabla-I</li> <li>● Outdoor Activity Based Courses <ul style="list-style-type: none"> <li>○ Entrepreneurship Awareness Camp</li> </ul> </li> <li>● Specialization Elective Courses <ul style="list-style-type: none"> <li>○ Fermentation Technology</li> <li>○ Nutraceuticals</li> <li>○ IPR and Bioethics</li> </ul> </li> </ul>
<p><b>SEMESTER III</b></p> <ul style="list-style-type: none"> <li>● Behavioural Science <ul style="list-style-type: none"> <li>○ Professional Competencies and Career Development</li> </ul> </li> <li>● Communication Skills <ul style="list-style-type: none"> <li>○ Professional Communication Skills</li> </ul> </li> <li>● Core Courses <ul style="list-style-type: none"> <li>○ Genomics and Proteomics</li> <li>○ Advanced Recombinant DNA Technology</li> </ul> </li> <li>● Domain Elective Courses <ul style="list-style-type: none"> <li>○ Anthropology of Food and Nutrition</li> <li>○ Growth, Development and Nutrition</li> <li>○ Green Technology</li> <li>○ Elementary Bioinformatics</li> <li>○ Biotechnology&amp; Personalized Medicine</li> <li>○ cancer &amp; immunity</li> <li>○ vaccinology</li> <li>○ Nutritional Immunology</li> </ul> </li> </ul>	<p><b>SEMESTER IV</b></p> <ul style="list-style-type: none"> <li>● Core Courses <ul style="list-style-type: none"> <li>○ Structural Biology</li> <li>○ Enzyme Technology</li> </ul> </li> <li>● Domain Elective Courses <ul style="list-style-type: none"> <li>○ Immunodiagnosics</li> <li>○ cancer &amp; immunity</li> <li>○ vaccinology</li> <li>○ nutrition &amp; immunity</li> <li>○ Nutritional Immunology</li> <li>○ Medical Virology</li> <li>○ Aquatic Virology</li> <li>○ Applied Virology</li> </ul> </li> <li>● Non Teaching Credit Courses <ul style="list-style-type: none"> <li>○ Dissertation</li> </ul> </li> <li>● Open Elective Courses <ul style="list-style-type: none"> <li>○ Bharatnatyam-I</li> <li>○ Risk Management - Bsi</li> <li>○ Food Safety Management Systems</li> <li>○ Business Continuity Management</li> <li>○ Six Sigma Green Belt</li> <li>○ Environmental Management Systems Bsi Offered</li> <li>○ Quality Management Systems</li> </ul> </li> </ul>

<ul style="list-style-type: none"> <li>○ Clinical Microbiology</li> <li>○ Plant - Microbe</li> </ul> <p>Interaction</p> <ul style="list-style-type: none"> <li>○ Aquatic Virology</li> <li>○ Applied Virology</li> <li>○ Viral Disease</li> </ul> <p>Management</p> <ul style="list-style-type: none"> <li>● Foreign Business Language <ul style="list-style-type: none"> <li>○ Arabic Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ Chinese Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ French Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ German Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ Japanese Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ Russian Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ Sanskrit Written</li> </ul> </li> <li>Expression and Comprehension – I <ul style="list-style-type: none"> <li>○ Spanish Written</li> </ul> </li> <li>Expression and Comprehension – I</li> <li>● Non Teaching Credit Courses <ul style="list-style-type: none"> <li>○ Term Paper - III</li> </ul> </li> <li>● Open Elective Courses <ul style="list-style-type: none"> <li>○ Bharatnatyam-I</li> <li>○ Risk Management -</li> </ul> </li> </ul> <p>Bsi</p> <ul style="list-style-type: none"> <li>○ Food Safety</li> </ul> <p>Management Systems</p> <ul style="list-style-type: none"> <li>○ Business Continuity</li> </ul> <p>Management</p> <ul style="list-style-type: none"> <li>○ Six Sigma Green Belt</li> <li>○ Environmental</li> </ul> <p>Management Systems Bsi</p> <ul style="list-style-type: none"> <li>○ Quality Management</li> </ul> <p>Systems</p> <ul style="list-style-type: none"> <li>○ Multimedia</li> </ul> <p>Applications</p> <ul style="list-style-type: none"> <li>○ Consumer Electronics</li> <li>○ Consumer Electronics</li> <li>○ Principles of</li> </ul> <p>Communication Engineering</p> <ul style="list-style-type: none"> <li>○ Home Health Monitor</li> </ul>	<ul style="list-style-type: none"> <li>○ It Enabled Services</li> <li>○ E-commerce and It's</li> </ul> <p>Applications</p> <ul style="list-style-type: none"> <li>○ Multimedia Applications</li> <li>○ Consumer Electronics</li> <li>○ Principles of</li> </ul> <p>Communication Engineering</p> <ul style="list-style-type: none"> <li>○ Home Health Monitor</li> </ul> <p>Appliances</p> <ul style="list-style-type: none"> <li>○ Indian Literature in</li> </ul> <p>Translation</p> <ul style="list-style-type: none"> <li>○ Preparing for Placement</li> </ul> <p>(Transition From Campus to Corporate)</p> <ul style="list-style-type: none"> <li>○ Managing Innovation</li> </ul> <p>Process</p> <ul style="list-style-type: none"> <li>○ Introduction to Fashion</li> </ul> <p>Concepts</p> <ul style="list-style-type: none"> <li>○ Fashion Drawing</li> <li>○ Fashion and Luxury</li> </ul> <p>Brand Management</p> <ul style="list-style-type: none"> <li>○ Basics of Sewing</li> <li>○ Nutrition Through Life</li> </ul> <p>Cycle</p> <ul style="list-style-type: none"> <li>○ Functional Foods and</li> </ul> <p>Nutraceuticals</p> <ul style="list-style-type: none"> <li>○ Guitar-I</li> <li>○ Hospital Hazards Disaster</li> </ul> <p>Management</p> <ul style="list-style-type: none"> <li>○ Software Applications for</li> </ul> <p>Erp</p> <ul style="list-style-type: none"> <li>○ Information Security</li> </ul> <p>Policies in Industries</p> <ul style="list-style-type: none"> <li>○ Ict and Sustainable</li> </ul> <p>Development</p> <ul style="list-style-type: none"> <li>○ Kathak-I</li> <li>○ Kuchipudi-I</li> <li>○ Odisi-I</li> <li>○ Positive Psychology and</li> </ul> <p>Well Being</p> <ul style="list-style-type: none"> <li>○ Sitar-I</li> <li>○ International Business</li> </ul> <p>Strategy</p> <ul style="list-style-type: none"> <li>○ Synthesizer-I</li> <li>○ Tabla-I</li> <li>○ Vocal -I</li> </ul>
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<ul style="list-style-type: none"> <li>Appliances <ul style="list-style-type: none"> <li>○ Managing Innovation</li> </ul> </li> <li>Process <ul style="list-style-type: none"> <li>○ Introduction to Fashion</li> </ul> </li> <li>Concepts <ul style="list-style-type: none"> <li>○ Fashion Drawing</li> <li>○ Fashion and Luxury</li> </ul> </li> <li>Brand Management <ul style="list-style-type: none"> <li>○ Basics of Sewing</li> <li>○ Nutrition Through Life</li> </ul> </li> <li>Cycle <ul style="list-style-type: none"> <li>○ Functional Foods and</li> </ul> </li> <li>Nutraceuticals <ul style="list-style-type: none"> <li>○ Guitar-I</li> <li>○ Software Applications</li> </ul> </li> <li>for Erp <ul style="list-style-type: none"> <li>○ Introduction to</li> </ul> </li> <li>Knowledge Management <ul style="list-style-type: none"> <li>○ Information Security</li> </ul> </li> <li>Policies in Industries <ul style="list-style-type: none"> <li>○ Ict and Sustainable</li> </ul> </li> <li>Development <ul style="list-style-type: none"> <li>○ Kathak-I</li> <li>○ Kuchipudi-I</li> <li>○ Odisi-I</li> <li>○ Applied Positive</li> </ul> </li> <li>Psychology <ul style="list-style-type: none"> <li>○ Sitar-I</li> <li>○ International Business</li> </ul> </li> <li>Strategy <ul style="list-style-type: none"> <li>○ Synthesizer-I</li> <li>○ Tabla-I</li> </ul> </li> <li>• Outdoor Activity Based Courses <ul style="list-style-type: none"> <li>○ Entrepreneurship</li> </ul> </li> <li>Awareness Camp</li> <li>• Specialization Elective Courses <ul style="list-style-type: none"> <li>○ Advance Plant</li> </ul> </li> <li>Biotechnology <ul style="list-style-type: none"> <li>○ Advanced Animal</li> </ul> </li> <li>Biotechnology <ul style="list-style-type: none"> <li>○ Pharmaceutical</li> </ul> </li> <li>Biotechnology and Drug Design <ul style="list-style-type: none"> <li>○ Nanobiotechnology</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Specialisation Elective Courses <ul style="list-style-type: none"> <li>○ Bioseparation</li> </ul> </li> <li>Technology <ul style="list-style-type: none"> <li>○ Green Technology</li> <li>○ Biosensors and</li> </ul> </li> <li>Bioelectronics <ul style="list-style-type: none"> <li>○ Food Technology</li> <li>○ Advanced Cancer</li> </ul> </li> <li>Biology</li> </ul>
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